

Clean Set of Amended Claims

1. (Amended) An apparatus for interfacing video information, comprising:  
a main body, which outputs a video signal and corresponding display type information, the display type information including a display code that designates a display type and; and

a monitor, which detects a display type of the corresponding video signal in accordance with the display type information, and displays the video signal outputted from the main body in accordance with the detected display type.

2. (Amended) A video interface, comprising:

a main body, which outputs a video signal through a video signal line, and outputs information relating to the video signal display type through a communication line, the information relating to the video signal display type including a display code that designates the video signal display type; and

a monitor, which detects the display type of the corresponding video signal in accordance with the display information, and displays the video signal outputted from the main body in accordance with the detected display type.

4. (Amended) An apparatus for interfacing video information in a computer system, comprising:

a main body, which outputs a video signal, a horizontal sync signal, and a vertical sync signal, at least one of which carries video signal display type information identifying a video type of the video signal, the video signal display type information including a display code that designates the video signal display type; and

a monitor, which detects the type of display for the corresponding video signal in accordance with the display type information, and displays the outputted video signal in accordance with the detected display type.

5. (Amended) A video interface, comprising:

a main body, which provides information relative to a display type of a video signal embedded in at least one of a video signal and a horizontal sync signal, and outputs the video signal, the horizontal sync signal, and the vertical sync signals; and

a monitor which detects the display type of the corresponding video signal in accordance with the display type information outputted from the main body, and displays the video signal in accordance with the detected display type, where in the information relative to the display type comprises a display code that designates the video signal display type.

8. (Amended) A method of interfacing video information, comprising:

transmitting video signal display type information from a main body to a monitor through one of the horizontal and vertical sync signals, a video signal, and communication data,

the video information display type information including a display code that designates a video display type; and

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detecting a display type of the video signal transmitted from the main body using the video signal display type information, and displaying the video signal to match the display type.

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12. (Amended) A method of interfacing video information, comprising:

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transmitting display type information of a video signal in communication data, along with the horizontal and vertical sync signals from a main body to a monitor, the display type information including a display code that designates the video signal display type; and

detecting a display type of the transmitted video signal using the display type information, and displaying the video signal to match the display type.

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14. (Amended) A method of interfacing video information, comprising:

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transmitting display type information of a video signal in at least one of a horizontal sync signal and the video signal from a main body, the display type information including a display code that designates the video signal display type; and

detecting a display type of the transmitted video signal using the display type information.

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16. (Amended) The method as claimed in claim 14, further comprising transmitting a vertical sync signal from the main body to the monitor, wherein the vertical sync signal comprises a clock pulse for recognizing the display type information.

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17. (Amended) A method of interfacing video information, comprising:

- dividing display type information of R, G, B video signals, the display type information including a recognition code that designates the video signal display type and data corresponding to the recognition code;
- embedding the divided display type information into a horizontal sync signal and at least one of the R, G, and B video signals, respectively;
- transmitting to a monitor the horizontal sync signal, a vertical sync signal, and the video signals;
- decoding and reassembling the display type information; and
- detecting a display type of the transmitted video signal using the reassembled display type information.

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26. (Amended) An apparatus for interfacing video information, comprising:

- a computer transmitting horizontal and vertical sync signals, serial data signal and serial clock signals through a display data channel, and a video signal; and

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a monitor receiving the horizontal and vertical sync signals, serial data signal and a serial clock signal through the display data channel, and the video signal, wherein a display type information of the video signal, including a display code that designates the video signal display type, is included in one of the serial data signal of the display data channel and the horizontal sync signal.

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Please add new claims 27-43 as follows:

27. (New) A method of interfacing video information, comprising:

dividing display type information of a video signal, the display type information including a display code that designates the video signal display type;

embedding the divided display type information into at least one of a horizontal sync signal, an R video signal, a G video signal, and a B video signal;

embedding a clock pulse for recognizing the display type information in the vertical sync signal;

transmitting the horizontal sync signal, R video signal, G video signal, B video signal, and vertical sync signal from a main body to a monitor; and

detecting a display type of the transmitted video signal using the display type information.

28. (New) The apparatus of claim 27, wherein the display code comprises a recognition code that designates the video display type and data corresponding to the recognition code.

29. (New) The apparatus of claim 1, wherein the main body outputs a vertical sync signal including a clock pulse for recognizing display type information.

30. (New) The apparatus of claim 1, wherein the display code comprises a recognition code that designates the display type and data corresponding to the recognition code.

31. (New) The apparatus of claim 2, wherein the display code comprises a recognition code that designates the video display type and data corresponding to the recognition code.

32. (New) The apparatus of claim 2, wherein the main body outputs a vertical sync signal including a clock pulse for recognizing display type information.

33. (New) The apparatus of claim 4, wherein the display code comprises a recognition code that designates the video display type and data corresponding to the recognition code.

34. (New) The apparatus of claim 4, wherein the vertical sync signal comprises a clock pulse for recognizing display type information.

35. (New) The apparatus of claim 5, wherein the display code comprises a recognition code that designates the video display type and data corresponding to the recognition code.

36. (New) The apparatus of claim 5, wherein the vertical sync signal comprises a clock pulse for recognizing display type information.

37. (New) The apparatus of claim 8, wherein the display code comprises a recognition code that designates the video display type and data corresponding to the recognition code.

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cont 38. (New) The apparatus of claim 8, wherein the vertical sync signal comprises a clock pulse for recognizing display type information.

39. (New) The apparatus of claim 12, wherein the display code comprises a recognition code that designates the video display type and data corresponding to the recognition code.

40. (New) The apparatus of claim 12, wherein the vertical sync signal comprises a clock pulse for recognizing display type information.

41. (New) The apparatus of claim 14, wherein the display code comprises a recognition code that designates the video display type and data corresponding to the recognition code.



42. (New) The apparatus of claim 26, wherein the display code comprises a recognition code that designates the video display type and data corresponding to the recognition code.

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43. (New) The apparatus of claim 26, wherein the vertical sync signal comprises a clock pulse for recognizing display type information.

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